DIAGNOSTIC REPORT

Patient Ref. No. 31000004661699

Cert. No. MC-2396

SRL Diagnostics

CLIENT CODE : C000138363

CLIENT'S NAME AND ADDRESS :
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
F-703, LADO SARAI, MEHRAULI
SOUTH WEST DELHI
NEW DELHI 110030
DELHI INDIA
8800465156

SRL Ltd
P S SRIJAN TECH PARK BUILDING, DN-52, UNIT NO. 2, GROUND FLOOR, SECTOR V, SALT LAKE,
KOLKATA, 700091
WEST BENGAL, INDIA
Tel : 9111591115, Fax : 30203412
CIN - U74899PB1995PLC045956
Email : customercare.saltlake@srl.in

PATIENT NAME : MINA ROY PATIENT ID : **MINAF04089231**

ACCESSION NO : **0031WC024745** AGE : 30 Years SEX : Female ABHA NO :

DRAWN : 30/03/2023 08:00 RECEIVED : 30/03/2023 09:04 REPORTED : 31/03/2023 19:55

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Test Report Status **Final**	Results		Biological Reference Interval	Units
MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE				
BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	12.8		12.0 - 15.0	g/dL
METHOD : SPECTROPHOTOMETRY				
RED BLOOD CELL (RBC) COUNT	**4.97**	High	3.8 - 4.8	mil/µL
METHOD : ELECTRICAL IMPEDANCE				
WHITE BLOOD CELL (WBC) COUNT	7.28		4.0 - 10.0	thou/µL
METHOD : ELECTRICAL IMPEDANCE				
PLATELET COUNT	236		150 - 410	thou/µL
METHOD : ELECTRONIC IMPEDENCE & MICROSCOPY				
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	38.9		36 - 46	%
METHOD : CALCULATED				
MEAN CORPUSCULAR VOLUME (MCV)	**78.3**	Low	83 - 101	fL
METHOD : ELECTRICAL IMPEDANCE				
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	**25.8**	Low	27.0 - 32.0	pg
METHOD : CALCULATED				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	33.0		31.5 - 34.5	g/dL
METHOD : CALCULATED				
RED CELL DISTRIBUTION WIDTH (RDW)	**15.7**	High	11.6 - 14.0	%
METHOD : ELECTRICAL IMPEDANCE				
MENTZER INDEX	15.8			
MEAN PLATELET VOLUME (MPV)	**11.0**	High	6.8 - 10.9	fL
METHOD : CALCULATED				
WBC DIFFERENTIAL COUNT				
NEUTROPHILS	53		40 - 80	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.				
LYMPHOCYTES	36		20 - 40	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.				
MONOCYTES	7		2 - 10	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.				
EOSINOPHILS	4		1 - 6	%
BASOPHILS	0		0 - 2	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.				
ABSOLUTE NEUTROPHIL COUNT	3.86		2.0 - 7.0	thou/µL

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METHOD : FLOWCYTOMETRY & CALCULATED				
ABSOLUTE LYMPHOCYTE COUNT	2.62		1 - 3	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED				
ABSOLUTE MONOCYTE COUNT	0.51		0.20 - 1.00	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED				
ABSOLUTE EOSINOPHIL COUNT	0.29		0.02 - 0.50	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED				
ABSOLUTE BASOPHIL COUNT	**0.00**	**Low**	0.02 - 0.10	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED				
MORPHOLOGY				
RBC	PREDOMINANTLY NORMOCYTIC NORMOCHROMIC WITH MILD ANISOCYTOSIS, FEW MICROCYTES SEEN.			
METHOD : MICROSCOPIC EXAMINATION				
WBC	NORMAL MORPHOLOGY			
METHOD : MICROSCOPIC EXAMINATION				
PLATELETS	ADEQUATE & NORMAL			
METHOD : MICROSCOPIC EXAMINATION				
ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD				
E.S.R	**29**	**High**	0 - 20	mm at 1 hr
METHOD : AUTOMATED (PHOTOMETRICAL CAPILLARY STOPPED FLOW KINETIC ANALYSIS)"				
GLUCOSE FASTING,FLUORIDE PLASMA				
FBS (FASTING BLOOD SUGAR)	95		74 - 100	mg/dL
METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)				
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD				
HBA1C	5.0		Non-diabetic Adult < 5.7 Pre-diabetes 5.7 - 6.4 Diabetes diagnosis: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)	%
METHOD : HPLC				
ESTIMATED AVERAGE GLUCOSE(EAG)	96.8		< 116.0	mg/dL

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SRL LIMITED - KOLKATA REF. LAB
Bio-Rad Variant II Turbo CDM 5.4 S/N : 16043

PATIENT REP
V2TURBO_A1c

Patient Data

Sample ID:	3106849419
Patient ID:	
Name:	
Physician:	
Sex:	
DOB:	

Comments:

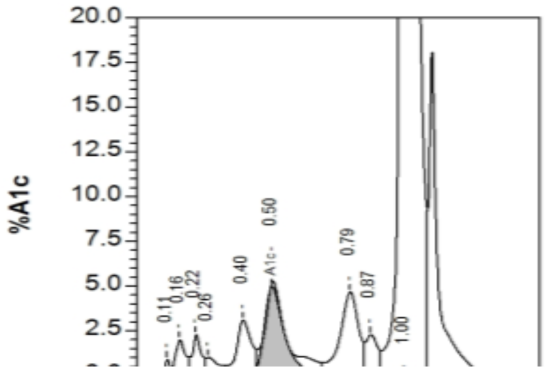
Analysis Data

Analysis Performed:	30/MAR/2023 12:36:32
Injection Number:	9798
Run Number:	455
Rack ID:	0007
Tube Number:	3
Report Generated:	30/MAR/2023 14:56:17
Operator ID:	

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
Unknown	---	0.1	0.111	2622
A1a	---	0.8	0.157	14507
A1b	---	0.8	0.218	13918
F	---	0.5	0.264	9198
LA1c	---	1.8	0.395	31619
A1c	5.0	---	0.503	70447
P3	---	3.4	0.791	59077
P4	---	1.1	0.869	18638
Ao	---	87.5	0.995	1538783

Total Area: 1,758,809

HbA1c (NGSP) = 5.0 %



LIPID PROFILE, SERUM

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CHOLESTEROL, TOTAL	**207**	**High**	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD : ENZYMATIC ASSAY				
TRIGLYCERIDES	65		< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
METHOD : GLYCEROL PHOSPHATE OXIDASE				
HDL CHOLESTEROL	44		Low : < 40 High : > / = 60	mg/dL
METHOD : ACCELERATOR SELECTIVE DETERGENT METHODOLOGY				
CHOLESTEROL LDL	150			mg/dL
NON HDL CHOLESTEROL	**163**	**High**	Desirable: Less than 130 Above Desirable: 130-159 Borderline High: 160-189 High: 190 -219 Very High: >or = 220	mg/dL
METHOD : CALCULATED				
VERY LOW DENSITY LIPOPROTEIN	13.0			mg/dL
CHOL/HDL RATIO	4.7			
LDL/HDL RATIO	3.4			

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Test Report Status **Final**	Results	Biological Reference Interval	Units

Interpretation(s)

1) Cholesterol levels help assess the patient risk status and to follow the progress of patient under treatment to lower serum cholesterol concentrations.

2) Serum Triglyceride (TG) are a type of fat and a major source of energy for the body. Both quantity and composition of the diet impact on plasma triglyceride concentrations. Elevations in TG levels are the result of overproduction and impaired clearance. High TG are associated with increased risk for CAD (Coronary artery disease) in patients with other risk factors, such as low HDL-C, some patient groups with elevated apolipoprotein B concentrations, and patients with forms of LDL that may be particularly atherogenic.

3)HDL-C plays a crucial role in the initial step of reverse cholesterol transport, this considered to be the primary atheroprotective function of HDL

4) LDL -C plays a key role in causing and influencing the progression of atherosclerosis and, in particular, coronary sclerosis.The majority of cholesterol stored in atherosclerotic plaques originates from LDL, thus LDL-C value is the most powerful clinical predictor.

5)Non HDL cholesterol: Non-HDL-C measures the cholesterol content of all atherogenic lipoproteins, including LDL hence it is a better marker of risk in both primary and secondary prevention studies. Non-HDL-C also covers, to some extent, the excess ASCVD risk imparted by the sdLDL, which is significantly more atherogenic than the normal large buoyant particles, an elevated non-HDL-C indirectly suggests greater proportion of the small, dense variety of LDL particles

Serum lipid profile is measured for cardiovascular risk prediction.Lipid Association of India recommends LDL-C as primary target and Non HDL-C as co-primary treatment target.

Risk Stratification for ASCVD (Atherosclerotic cardiovascular disease) by Lipid Association of India

Risk Category	
Extreme risk group	A.CAD with > 1 feature of high risk group
	B. CAD with > 1 feature of Very high risk group or recurrent ACS (within 1 year) despite LDL-C < or = 50 mg/dl or polyvascular disease
Very High Risk	1. Established ASCVD 2. Diabetes with 2 major risk factors or evidence of end organ damage 3. Familial Homozygous Hypercholesterolemia
High Risk	1. Three major ASCVD risk factors. 2. Diabetes with 1 major risk factor or no evidence of end organ damage. 3. CKD stage 3B or 4. 4. LDL >190 mg/dl 5. Extreme of a single risk factor. 6. Coronary Artery Calcium - CAC >300 AU. 7. Lipoprotein a >/= 50mg/dl 8. Non stenotic carotid plaque
Moderate Risk	2 major ASCVD risk factors
Low Risk	0-1 major ASCVD risk factors
Major ASCVD (Atherosclerotic cardiovascular disease) Risk Factors	
1. Age > or = 45 years in males and > or = 55 years in females	3. Current Cigarette smoking or tobacco use
2. Family history of premature ASCVD	4. High blood pressure
5. Low HDL	

Newer treatment goals and statin initiation thresholds based on the risk categories proposed by LAI in 2020.

Risk Group	**Treatment Goals**		**Consider Drug Therapy**	
	LDL-C (mg/dl)	**Non-HDL (mg/dl)**	**LDL-C (mg/dl)**	**Non-HDL (mg/dl)**

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Extreme Risk Group Category A	<50 (Optional goal < OR = 30)	< 80 (Optional goal <OR = 60)	>OR = 50	>OR = 80
Extreme Risk Group Category B	<OR = 30	<OR = 60	> 30	>60
Very High Risk	<50	<80	>OR= 50	>OR= 80
High Risk	<70	<100	>OR= 70	>OR= 100
Moderate Risk	<100	<130	>OR= 100	>OR= 130
Low Risk	<100	<130	>OR= 130*	>OR= 160

*After an adequate non-pharmacological intervention for at least 3 months.

References: Management of Dyslipidaemia for the Prevention of Stroke: Clinical Practice Recommendations from the Lipid Association of India. Current Vascular Pharmacology, 2022, 20, 134-155.

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL	1.11		0.2 - 1.2	mg/dL
METHOD : DIAZONIUM SALT				
BILIRUBIN, DIRECT	0.36		0.0 - 0.5	mg/dL
METHOD : DIAZO REACTION				
BILIRUBIN, INDIRECT	0.75		0.1 - 1.0	mg/dL
METHOD : CALCULATED				
TOTAL PROTEIN	8.1		6.0 - 8.30	g/dL
METHOD : BIURET				
ALBUMIN	4.4		3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)				
GLOBULIN	**3.7**	**High**	2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO	1.2		1 - 2.1	RATIO
METHOD : CALCULATED PARAMETER				
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	23		5 - 34	U/L
METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	10		0 - 55	U/L
METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)				
ALKALINE PHOSPHATASE	82		40 - 150	U/L
METHOD : PARA-NITROPHENYL PHOSPHATE				
GAMMA GLUTAMYL TRANSFERASE (GGT)	**6**	**Low**	8 -33	U/L
METHOD : L-GAMMA-GLUTAMYL-4-NITROANALIDE /GLYCYLGLYCINE KINETIC METHOD				
LACTATE DEHYDROGENASE	199		125 - 220	U/L
METHOD : IFCC LACTATE TO PYRUVATE				

BLOOD UREA NITROGEN (BUN), SERUM

BLOOD UREA NITROGEN	10		7.0 - 18.7	mg/dL

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METHOD : UREASE METHOD				
CREATININE, SERUM				
CREATININE	0.88		0.50 - 1.00	mg/dL
METHOD : KINETIC ALKALINE PICRATE				
BUN/CREAT RATIO				
BUN/CREAT RATIO	11.36		5.0 - 15.0	
URIC ACID, SERUM				
URIC ACID	**6.9**	**High**	2.6 - 6.0	mg/dL
METHOD : URICASE				
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	8.1		6.0 - 8.3	g/dL
METHOD : BIURET				
ALBUMIN, SERUM				
ALBUMIN	4.4		3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)				
GLOBULIN				
GLOBULIN	**3.7**	**High**	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER				
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM, SERUM	**130**	**Low**	136 - 145	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT				
POTASSIUM, SERUM	4.20		3.5 - 5.1	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT				
CHLORIDE, SERUM	100		98 - 107	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT				

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Interpretation(s)

Sodium	Potassium	Chloride
Decreased in:CCF,cirrhosis, vomiting, diarrhea, excessive sweating, salt-losing nephropathy,adrenal insufficiency, nephrotic syndrome, water intoxication, SIADH. Drugs: thiazides, diuretics, ACE inhibitors, chlorpropamide,carbamazepine,anti depressants (SSRI), antipsychotics.	**Decreased in:** Low potassium intake,prolonged vomiting or diarrhea, RTA types I and II, hyperaldosteronism, Cushing's syndrome,osmotic diuresis (e.g., hyperglycemia),alkalosis, familial periodic paralysis,trauma (transient).Drugs: Adrenergic agents, diuretics.	**Decreased in:** Vomiting, diarrhea, renal failure combined with salt deprivation, over-treatment with diuretics, chronic respiratory acidosis, diabetic ketoacidosis, excessive sweating, SIADH, salt-losing nephropathy, porphyria, expansion of extracellular fluid volume, adrenalinsufficiency, hyperaldosteronism,metabolic alkalosis. Drugs: chronic laxative,corticosteroids, diuretics.
Increased in: Dehydration (excessivesweating, severe vomiting or diarrhea),diabetes mellitus, diabetesinsipidus, hyperaldosteronism, inadequate water intake. Drugs: steroids, licorice,oral contraceptives.	**Increased in:** Massive hemolysis, severe tissue damage, rhabdomyolysis, acidosis, dehydration,renal failure, Addison' s disease, RTA type IV, hyperkalemic familial periodic paralysis. Drugs: potassium salts, potassium- sparing diuretics,NSAIDs, beta-blockers, ACE inhibitors, high-dose trimethoprim-sulfamethoxazole.	**Increased in:** Renal failure, nephrotic syndrome, RTA,dehydration, overtreatment with saline,hyperparathyroidism, diabetes insipidus, metabolic acidosis from diarrhea (Loss of HCO3-), respiratory alkalosis,hyperadrenocorticism. Drugs: acetazolamide,androgens, hydrochlorothiazide,salicylates.
Interferences: Severe lipemia or hyperproteinemi, if sodium analysis involves a dilution step can cause spurious results. The serum sodium falls about 1.6 mEq/L for each 100 mg/dL increase in blood glucose.	**Interferences:** Hemolysis of sample, delayed separation of serum, prolonged fist clenching during blood drawing, and prolonged tourniquet placement. Very high WBC/PLT counts may cause spurious. Plasma potassium levels are normal.	**Interferences:**Test is helpful in assessing normal and increased anion gap metabolic acidosis and in distinguishing hypercalcemia due to hyperparathyroidism (high serum chloride) from that due to malignancy (Normal serum chloride)

PHYSICAL EXAMINATION, URINE

COLOR	PALE YELLOW	
APPEARANCE	CLEAR	

CHEMICAL EXAMINATION, URINE

PH	6.0	4.7 - 7.5
SPECIFIC GRAVITY	1.025	1.003 - 1.035
METHOD : DIPSTICK		
PROTEIN	**DETECTED (+)**	NOT DETECTED
METHOD : DIPSTICK		
GLUCOSE	NOT DETECTED	NOT DETECTED
METHOD : DIPSTICK		
KETONES	NOT DETECTED	NOT DETECTED
METHOD : DIPSTICK		
BLOOD	**DETECTED (++)**	NOT DETECTED
METHOD : DIPSTICK		
BILIRUBIN	NOT DETECTED	NOT DETECTED

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METHOD : DIPSTICK			
UROBILINOGEN	NORMAL	NORMAL	
METHOD : DIPSTICK			
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
LEUKOCYTE ESTERASE	NEGATIVE	NOT DETECTED	
MICROSCOPIC EXAMINATION, URINE			
RED BLOOD CELLS	**15 - 20**	NOT DETECTED	/HPF
PUS CELL (WBC'S)	2-3	0-5	/HPF
EPITHELIAL CELLS	1-2	0-5	/HPF
CASTS	NOT DETECTED		
CRYSTALS	NOT DETECTED		
BACTERIA	NOT DETECTED	NOT DETECTED	
YEAST	NOT DETECTED	NOT DETECTED	

Comments

URINALYSIS: MICROSCOPIC EXAMINATION IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.

NOTE: URINE PROTEIN RECHECKED AND CONFIRMED BY SULPHOSALICYLIC ACID TEST.

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CLIENT CODE : C000138363

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SOUTH WEST DELHI
NEW DELHI 110030
DELHI INDIA
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P S SRIJAN TECH PARK BUILDING, DN-52, UNIT NO. 2, GROUND FLOOR, SECTOR V, SALT LAKE,
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WEST BENGAL, INDIA
Tel : 9111591115, Fax : 30203412
CIN - U74899PB1995PLC045956
Email : customercare.saltlake@srl.in

PATIENT NAME : MINA ROY PATIENT ID : **MINAF04089231**

ACCESSION NO : **0031WC024745** AGE : 30 Years SEX : Female ABHA NO :

DRAWN : 30/03/2023 08:00 RECEIVED : 30/03/2023 09:04 REPORTED : 31/03/2023 19:55

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Test Report Status **Final**	Results	Biological Reference Interval	Units

Interpretation(s)

The following table describes the probable conditions, in which the analytes are present in urine

Presence of	Conditions
Proteins	Inflammation or immune illnesses
Pus (White Blood Cells)	Urinary tract infection, urinary tract or kidney stone, tumors or any kind of kidney impairment
Glucose	Diabetes or kidney disease
Ketones	Diabetic ketoacidosis (DKA), starvation or thirst
Urobilinogen	Liver disease such as hepatitis or cirrhosis
Blood	Renal or genital disorders/trauma
Bilirubin	Liver disease
Erythrocytes	Urological diseases (e.g. kidney and bladder cancer, urolithiasis), urinary tract infection and glomerular diseases
Leukocytes	Urinary tract infection, glomerulonephritis, interstitial nephritis either acute or chronic, polycystic kidney disease, urolithiasis, contamination by genital secretions
Epithelial cells	Urolithiasis, bladder carcinoma or hydronephrosis, ureteric stents or bladder catheters for prolonged periods of time
Granular Casts	Low intratubular pH, high urine osmolality and sodium concentration, interaction with Bence-Jones protein
Hyaline casts	Physical stress, fever, dehydration, acute congestive heart failure, renal diseases
Calcium oxalate	Metabolic stone disease, primary or secondary hyperoxaluria, intravenous infusion of large doses of vitamin C, the use of vasodilator naftidrofuryl oxalate or the gastrointestinal lipase inhibitor orlistat, ingestion of ethylene glycol or of star fruit (Averrhoa carambola) or its juice
Uric acid	arthritis
Bacteria	Urinary infectionwhen present in significant numbers & with pus cells.
Trichomonas vaginalis	Vaginitis, cervicitis or salpingitis

THYROID PANEL, SERUM

T3	99.4	35 - 193	ng/dL

METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

T4	10.98	Non-Pregnant Women 4.87 - 11.71 Pregnant Women 1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70	µg/dL

METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

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TSH (ULTRASENSITIVE)	2.773	0.350 - 4.940	µIU/mL

METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

Interpretation(s)

Triiodothyronine T3 , **Thyroxine T4,** and **Thyroid Stimulating Hormone TSH** are thyroid hormones which affect almost every physiological process in the body, including growth, development, metabolism, body temperature, and heart rate.
Production of T3 and its prohormone thyroxine (T4) is activated by thyroid-stimulating hormone (TSH), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSH.
Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism.
In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hyperthyroidism, TSH levels are low.
Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3.Measurement of the serum TT3 level is a more sensitive test for the diagnosis of hyperthyroidism, and measurement of TT4 is more useful in the diagnosis of hypothyroidism.Most of the thyroid hormone in blood is bound to transport proteins. Only a very small fraction of the circulating hormone is free and biologically active. It is advisable to detect Free T3, FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4**.**

Sr. No.	TSH	Total T4	FT4	Total T3	Possible Conditions
1	High	Low	Low	Low	(1) Primary Hypothyroidism (2) Chronic autoimmune Thyroiditis (3) Post Thyroidectomy (4) Post Radio-Iodine treatment
2	High	Normal	Normal	Normal	(1)Subclinical Hypothyroidism (2) Patient with insufficient thyroid hormone replacement therapy (3) In cases of Autoimmune/Hashimoto thyroiditis (4). Isolated increase in TSH levels can be due to Subclinical inflammation, drugs like amphetamines, Iodine containing drug and dopamine antagonist e.g. domperidone and other physiological reasons.
3	Normal/Low	Low	Low	Low	(1) Secondary and Tertiary Hypothyroidism
4	Low	High	High	High	(1) Primary Hyperthyroidism (Graves Disease) (2) Multinodular Goitre (3)Toxic Nodular Goitre (4) Thyroiditis (5) Over treatment of thyroid hormone (6) Drug effect e.g. Glucocorticoids, dopamine, T4 replacement therapy (7) First trimester of Pregnancy
5	Low	Normal	Normal	Normal	(1) Subclinical Hyperthyroidism
6	High	High	High	High	(1) TSH secreting pituitary adenoma (2) TRH secreting tumor
7	Low	Low	Low	Low	(1) Central Hypothyroidism (2) Euthyroid sick syndrome (3) Recent treatment for Hyperthyroidism
8	Normal/Low	Normal	Normal	High	(1) T3 thyrotoxicosis (2) Non-Thyroidal illness
9	Low	High	High	Normal	(1) T4 Ingestion (2) Thyroiditis (3) Interfering Anti TPO antibodies

REF: 1. TIETZ Fundamentals of Clinical chemistry 2.Guidlines of the American Thyroid association duriing pregnancy and Postpartum, 2011.
NOTE: It is advisable to detect Free T3,FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4.TSH is not affected by variation in thyroid - binding protein. TSH has a diurnal rhythm, with peaks at 2:00 - 4:00 a.m. And troughs at 5:00 - 6:00 p.m. With ultradian variations.

PAPANICOLAOU SMEAR

SPECIMEN TYPE TWO UNSTAINED CERVICAL SMEARS RECEIVED

REPORTING SYSTEM 2014 BETHESDA SYSTEM FOR REPORTING CERVICAL CYTOLOGY

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SPECIMEN ADEQUACY	SMEARS ARE SATISFACTORY FOR EVALUATION.		
MICROSCOPY	SMEARS STUDIED ARE SATISFACTORY FOR EVALUATION AND SHOW MAINLY SUPERFICIAL SQUAMOUS CELLS, INTERMEDIATE SQUAMOUS CELLS AND PARABASAL CELLS. FEW METAPLASTIC CELLS ARE SEEN. MONILIA AND T. VAGINALIS ARE ABSENT. DYSPLASTIC AND MALIGNANT CELLS ARE ABSENT.		
METHOD : MANUAL			
INTERPRETATION / RESULT	NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY		

Comments

1) PLEASE NOTE PAPANICOLAU SMEAR STUDY IS A SCREENING PROCEDURE FOR CERVICAL CANCER WITH INHERENT FALSE NEGATIVE RESULTS. HENCE SHOULD BE INTERPRETED WITH CAUTION.
2) NO CYTOLOGIC EVIDENCE OF HPV INFECTION IN THE SMEARS STUDIED.

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP	TYPE B	
METHOD : GEL CARD METHOD		
RH TYPE	POSITIVE	
METHOD : GEL CARD METHOD		

*** XRAY-CHEST**

IMPRESSION	NO ABNORMALITY DETECTED	

*** TMT OR ECHO**

TMT OR ECHO	Echo Done - Normal	

*** ECG**

ECG	WITHIN NORMAL LIMITS	

*** MEDICAL HISTORY**

RELEVANT PRESENT HISTORY	NOT SIGNIFICANT	
RELEVANT PAST HISTORY	NOT SIGNIFICANT	
RELEVANT PERSONAL HISTORY	NOT SIGNIFICANT	
RELEVANT FAMILY HISTORY	Father- HTN, Nother- Diabetes	
OCCUPATIONAL HISTORY	NOT SIGNIFICANT	
HISTORY OF MEDICATIONS	NOT SIGNIFICANT	

*** ANTHROPOMETRIC DATA & BMI**

HEIGHT IN METERS	1.53	mts
WEIGHT IN KGS.	83	Kgs

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BMI	35	BMI & Weight Status as follows: kg/sqmts Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese	
*** GENERAL EXAMINATION**			
MENTAL / EMOTIONAL STATE	NORMAL		
PHYSICAL ATTITUDE	NORMAL		
GENERAL APPEARANCE / NUTRITIONAL STATUS	OBESE		
BUILT / SKELETAL FRAMEWORK	AVERAGE		
FACIAL APPEARANCE	NORMAL		
SKIN	NORMAL		
UPPER LIMB	NORMAL		
LOWER LIMB	NORMAL		
NECK	NORMAL		
NECK LYMPHATICS / SALIVARY GLANDS	NOT ENLARGED OR TENDER		
THYROID GLAND	NOT ENLARGED		
CAROTID PULSATION	NORMAL		
BREAST (FOR FEMALES)	NORMAL		
TEMPERATURE	NORMAL		
PULSE	78/min-REGULAR, ALL PERIPHERAL PULSES WELL FELT		
RESPIRATORY RATE	NORMAL		
*** CARDIOVASCULAR SYSTEM**			
BP	126/86 mm Hg		mm/Hg
PERICARDIUM	NORMAL		
APEX BEAT	NORMAL		
HEART SOUNDS	S1, S2 HEARD NORMALLY		
MURMURS	ABSENT		
*** RESPIRATORY SYSTEM**			
SIZE AND SHAPE OF CHEST	NORMAL		
MOVEMENTS OF CHEST	SYMMETRICAL		
BREATH SOUNDS INTENSITY	NORMAL		
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)		
ADDED SOUNDS	ABSENT		
*** PER ABDOMEN**			

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APPEARANCE	NORMAL		
VENOUS PROMINENCE	ABSENT		
LIVER	NOT PALPABLE		
SPLEEN	NOT PALPABLE		
HERNIA	ABSENT		
*** CENTRAL NERVOUS SYSTEM**			
HIGHER FUNCTIONS	NORMAL		
CRANIAL NERVES	NORMAL		
CEREBELLAR FUNCTIONS	NORMAL		
SENSORY SYSTEM	NORMAL		
MOTOR SYSTEM	NORMAL		
REFLEXES	NORMAL		
*** MUSCULOSKELETAL SYSTEM**			
SPINE	NORMAL		
JOINTS	NORMAL		
*** BASIC EYE EXAMINATION**			
CONJUNCTIVA	NORMAL		
EYELIDS	NORMAL		
EYE MOVEMENTS	NORMAL		
DISTANT VISION RIGHT EYE WITH GLASSES	6/15		
DISTANT VISION LEFT EYE WITH GLASSES	6/24		
NEAR VISION RIGHT EYE WITH GLASSES	N6		
NEAR VISION LEFT EYE WITH GLASSES	N6		
COLOUR VISION	NORMAL		
*** BASIC ENT EXAMINATION**			
EXTERNAL EAR CANAL	NORMAL		
TYMPANIC MEMBRANE	NORMAL		
NOSE	NO ABNORMALITY DETECTED		
SINUSES	NORMAL		
THROAT	NO ABNORMALITY DETECTED		
TONSILS	NOT ENLARGED		
*** BASIC DENTAL EXAMINATION**			
TEETH	NORMAL		

DIAGNOSTIC REPORT

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GUMS	HEALTHY		
*** SUMMARY**			
RELEVANT HISTORY	NOT SIGNIFICANT		
RELEVANT GP EXAMINATION FINDINGS	Obese (83 kg)		
RELEVANT LAB INVESTIGATIONS	Raised CH(207),NON HDL(163),U/A(6.9),Low sodium(130)		
RELEVANT NON PATHOLOGY DIAGNOSTICS	Mild hepatomegaly in USG.		
REMARKS / RECOMMENDATIONS	On examination and investigations the candidate is found to be obese and has raised CH(207),NON HDL(163),U/A(6.9),Low sodium (130) Mild hepatomegaly in USG Should follow the given advice: 1. Avoid fat, oil and high protein in diet 2. Reduce body weight 3. Estimated body weight should be : 57 kg 4. Regular physical exercise and walking 5. Drink sips of electral water 6. Dietician, physician and ophthalmologist consultation		

Comments

MEDICAL EXAMINATION DONE BY:

DR. DEBIKA ROY, MBBS
REG NO: 51651 (WBMC)
CONSULTANT PHYSICIAN
WELLNESS CLINIC
SALT LAKE REF LAB, KOLKATA

Interpretation(s)
BLOOD COUNTS,EDTA WHOLE BLOOD-The cell morphology is well preserved for 24hrs. However after 24-48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology.
RBC AND PLATELET INDICES-Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia(>13) from Beta thalassaemia trait
(<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait.
WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.
(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients A.-P. Yang, et al. International Immunopharmacology 84 (2020) 106504
This ratio element is a calculated parameter and out of NABL scope.
ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD-**TEST DESCRIPTION** :-
Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change.
TEST INTERPRETATION

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Increase in: Infections, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.
Finding a very accelerated ESR**(>100 mm/hour)** in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis).
In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.
Decreased in: Polycythermia vera, Sickle cell anemia

LIMITATIONS

False elevated ESR : Increased fibrinogen, Drugs(Vitamin A, Dextran etc), Hypercholesterolemia
False Decreased : Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine,

salicylates)

REFERENCE :
1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition 2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin 3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis,10th edition.
GLUCOSE FASTING,FLUORIDE PLASMA-**TEST DESCRIPTION**
Normally, the glucose concentration in extracellular fluid is closely regulated so that a source of energy is readily available to tissues and sothat no glucose is excreted in the urine.
Increased in:Diabetes mellitus, Cushing' s syndrome (10 – 15%), chronic pancreatitis (30%). Drugs:corticosteroids,phenytoin, estrogen, thiazides.
Decreased in :Pancreatic islet cell disease with increased insulin,insulinoma,adrenocortical insufficiency,hypopituitarism,diffuse liver disease, malignancy(adrenocortical,stomach,fibrosarcoma),infant of a diabetic mother,enzyme deficiency diseases(e.g.galactosemia),Drugs-insulin,ethanol,propranolol sulfonylureas,tolbutamide,and other oral hypoglycemic agents.
NOTE: While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values),there is wide fluctuation within individuals.Thus, glycosylated hemoglobin(HbA1c) levels are favored to monitor glycemic control.
High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment,Renal Glyosuria,Glycaemic index & response to food consumed,Alimentary Hypoglycemia,Increased insulin response & sensitivity etc.
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-**Used For**:

1. Evaluating the long-term control of blood glucose concentrations in diabetic patients.
2. Diagnosing diabetes.
3. Identifying patients at increased risk for diabetes (prediabetes).
The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patients metabolic control has remained continuously within the target range.
1. eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.
2. eAG gives an evaluation of blood glucose levels for the last couple of months.
3. eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :
1. Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss,hemolytic anemia) will falsely lower HbA1c test results.Fructosamine is recommended in these patients which indicates diabetes control over 15 days.
2.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.
3. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia,uremia, hyperbilirubinemia, chronic alcoholism,chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods,falsely increasing results.
4. Interference of hemoglobinopathies in HbA1c estimation is seen in

a) Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.
b) Heterozygous state detected (D10 is corrected for HbS & HbC trait.)
c) HbF > 25% on alternate paltform (Boronate affinity chromatography) is recommended for testing of HbA1c.Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy
LIVER FUNCTION PROFILE, SERUM-
Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.**Elevated levels** results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.
AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of

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KOLKATA, 700091
WEST BENGAL, INDIA
Tel : 9111591115, Fax : 30203412
CIN - U74899PB1995PLC045956
Email : customercare.saltlake@srl.in

PATIENT NAME : MINA ROY PATIENT ID : **MINAF04089231**

ACCESSION NO : **0031WC024745** AGE : 30 Years SEX : Female ABHA NO :

DRAWN : 30/03/2023 08:00 RECEIVED : 30/03/2023 09:04 REPORTED : 31/03/2023 19:55

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Test Report Status **Final**	Results	Biological Reference Interval	Units

hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.
ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Pagets disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilsons disease.
GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.
Total Protein also known as total protein,is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstroms disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome,Protein-losing enteropathy etc.
Albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein.Low blood albumin levels (hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc
BLOOD UREA NITROGEN (BUN), SERUM-**Causes of Increased** levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism)
Causes of decreased level include Liver disease, SIADH.
CREATININE, SERUM-**Higher than normal level may be due to:**
• Blockage in the urinary tract, Kidney problems, such as kidney damage or failure, infection, or reduced blood flow, Loss of body fluid (dehydration), Muscle problems, such as breakdown of muscle fibers, Problems during pregnancy, such as seizures (eclampsia)), or high blood pressure caused by pregnancy (preeclampsia)
Lower than normal level may be due to:
• Myasthenia Gravis, Muscuophy
URIC ACID, SERUM-**Causes of Increased levels:**-Dietary(High Protein Intake,Prolonged Fasting,Rapid weight loss),Gout,Lesch nyhan syndrome,Type 2 DM,Metabolic syndrome **Causes of decreased levels**-Low Zinc intake,OCP,Multiple Sclerosis
TOTAL PROTEIN, SERUM-is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.
Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma,Waldenstroms disease.
Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage),Burns,Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome,Protein-losing enteropathy etc.
ALBUMIN, SERUM-
Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. **Low blood albumin levels (hypoalbuminemia) can be caused by:** Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc.
ABO GROUP & RH TYPE, EDTA WHOLE BLOOD-Blood group is identified by antigens and antibodies present in the blood. Antigens are protein molecules found on the surface of red blood cells. Antibodies are found in plasma. To determine blood group, red cells are mixed with different antibody solutions to give A,B,O or AB.

Disclaimer: "Please note, as the results of previous ABO and Rh group (Blood Group) for pregnant women are not available, please check with the patient records for availability of the same."

The test is performed by both forward as well as reverse grouping methods.
MEDICAL
HISTORY-**********
THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVIOLABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

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DIAGNOSTIC REPORT

Patient Ref. No. 31000004661699

Cert. No. MC-2396

CLIENT CODE : C000138363

CLIENT'S NAME AND ADDRESS :
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
F-703, LADO SARAI, MEHRAULI
SOUTH WEST DELHI
NEW DELHI 110030
DELHI INDIA
8800465156

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MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

*** ULTRASOUND ABDOMEN**

ULTRASOUND ABDOMEN

Mild hepatomegaly

****End Of Report****
Please visit www.srlworld.com for related Test Information for this accession
TEST MARKED WITH '*' ARE OUTSIDE THE NABL ACCREDITED SCOPE OF THE LABORATORY.

Dr. Chaitali Ray, PHD
Senior Biochemist cum Management Representative

Dr.Himadri Mondal, MD
Consultant Microbiologist

Dr. Debika Roy
MBBS Consultant Physician

Dr.Anwesha Chatterjee,MD
Pathologist

CONDITIONS OF LABORATORY TESTING & REPORTING

1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
4. A requested test might not be performed if:
   i. Specimen received is insufficient or inappropriate
   ii. Specimen quality is unsatisfactory
   iii. Incorrect specimen type
   iv. Discrepancy between identification on specimen container label and test requisition form
5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.
7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.
8. Test results cannot be used for Medico legal purposes.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

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SRL Limited
Fortis Hospital, Sector 62, Phase VIII,
Mohali 160062

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